



MERCEDES-BENZ

***Service***

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# **Maintenance Manual USA Model Year 1972–1980**

**Passenger Cars Volume 1**

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This Maintenance Manual contains maintenance jobs to be performed on Passenger Cars starting model year 1972 up to model year 1980.

Besides the detailed descriptions (both written and illustrated) of these jobs, all necessary checking and adjustment data as well as filling quantities, fuels, lubricants, and coolants, and information on required special tools and specified tightening torques are included.

Each individual maintenance job is assigned a number (position number) which may be found in the outer upper corner of the respective page, arranged in numerical sequence. The position number in the Maintenance Manual corresponds to the number in the Work Sheets and Maintenance Booklet so that, if necessary, when carrying out the maintenance jobs the corresponding texts and data can be immediately found.

The types or engines to which the work applies are listed below the position number. Information on the maintenance intervals during which the individual jobs should be carried out can be obtained from the tables at the beginning of the manual.

A listing of all maintenance jobs is supplied in the index which is arranged in sequence of the unit groups and respective subjects.

Daimler-Benz Aktiengesellschaft  
Zentralkundendienst

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## Model designation

	Sales Designation	Model	Engine Type Designation
<b>Sedans</b>	220 D	115.110	615.912
	240 D	115.117	616.916
	240 D	123.123	616.912
	300 D	115.114	617.910
	300 D	123.130	617.912
	300 TD	123.190	617.912
	300 SD	116.120	617.950
	220	115.010	115.920
	230	115.017	115.951
	230	123.023	115.954
	250	114.011	130.923
	280	114.060	110.921
	280 E	123.033	110.984 <sup>1)</sup>
	280 S	108.016	130.920
	280 S	116.020	110.922
	280 SE	108.018	130.980
	280 SE	116.024	110.985 <sup>1)</sup>
	280 SEL	108.019	130.980
	280 SE 4.5	108.067	117.984
	280 SEL 4.5	108.068	117.984
	300 SEL	109.016	130.981
	300 SEL 3.5	109.056	116.981
	300 SEL 4.5	109.057	117.981
	300 SEL 6.3	109.018	100.981
	450 SE	116.032	117.983/986 <sup>1)</sup>
	450 SEL	116.033	117.983/986 <sup>1)</sup>
	6.9	116.036	100.985 <sup>1)</sup>
	600	100.012	100.980
	600 long 4 doors	100.014	100.980
	600 long 6 doors	100.016	100.980
<b>Coupés</b>	250 C	114.023	130.923
	280 C	114.073	110.921
	280 CE	123.053	110.984
	280 SE	111.024	130.980
	280 SE 3.5	111.026	116.980
	300 CD	123.150	617.912
	450 SLC	107.024	117.982/985 <sup>1)</sup>
<b>Convertibles</b>	280 SE	111.025	130.980
	280 SE 3.5	111.027	116.980
<b>Roadster</b>	280 SL	113.044	130.983
	450 SL	107.044	117.982/985 <sup>1)</sup>

<sup>1)</sup> Engines with CIS (continuous injection system)

<b>Engine, mechanical (00—20)</b>	<b>Job No.</b>
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Cooling water level, check and correct . . . . .	990
Cylinder head bolt, retighten . . . . .	752
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114 130 . . . . .	752.3
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Engines 100.980/981 . . . . .	page 151.05
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114 130 180 . . . . .	151.20
115 . . . . .	151.25
116 117 . . . . .	151.30
615 616 617 up to model year 1976 . . . . .	151.35
616 617 starting model year 1977 . . . . .	151.41
617.950 starting model year 1978 . . . . .	151.45
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Hose clamps, check for tight fit . . . . .	907
Renewing coolant with anti-freeze . . . . .	991
Supplementary oil filter for hydraulic fan coupling, clean . . . . .	156
Valve clearance, adjust . . . . .	753
Engines 100 116 117 . . . . .	page 753.1
110 . . . . .	753.3
115 130 . . . . .	753.5
615 616 617 . . . . .	753.7
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V-belts, retension . . . . .	756
Engines 100.980 . . . . .	page 756.05
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100.985 . . . . .	756.16
110 model year 1973—1976 . . . . .	756.21
starting model year 1977 . . . . .	756.23
114 130 . . . . .	756.29
115 model year 1972—1974 . . . . .	756.35
model year 1975—1976 . . . . .	756.36
starting model year 1977 . . . . .	756.37
116 117 . . . . .	756.55
615 616 617 model year 1972—1976 . . . . .	756.70
starting model year 1977 . . . . .	756.71
starting February 1979 . . . . .	756.72
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Air filter element, replace, model year 1980	203
Air injection, check, model year 1974	765
Begin of delivery, checking, Engines 616 617	787
Carburetor flange, retighten	876
Catalyst, replace	767
Contact breaker points, renew	773
Dwell angle, check	781
Dwell angle and ignition timing, adjust	782
Engine control linkage and control shafts, lubricate	415
Engine control linkage, check	813
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Exhaust gas turbo charger, retighten nuts	877
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Fuel filter element, replace	849
Fuel filter or filter element, replace	840
Fuel lines and hoses of electronically controlled fuel injection system, check for tight fit	891
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Fuel prefilter, check	844
Fuel pump, clean strainer	851
Fuel pump, renew strainer	852
Fuel system, check condition and sealing	041
Heater flaps, clean and spray	785
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Idle speed, check and adjust	798
check with CO measuring instrument and adjust	
Engine 100.985 110.984/985 117.985/986	
with CIS (continuous injection system) up to model year 1979;	
(model year 1980 see Job No. 799)	page 798.20
100 130	798.30
110 with Solex carburetor 4 A 1	798.35
115 with Stromberg carburetor	798.40
116 117 with electronically controlled gasoline injection system	798.50
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Job. No.

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# Maintenance Chart Model Years 1977-1979

	107.024		107.044		116.024		123.033 123.053		116.033		116.036			
Job. No.	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection - every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection - every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles
009				●					●				●	
020									●				●	
025				●					●				●	
028				●					●				●	
029	This Job No. is contained in Job No. 025													
030					●				●				●	
038	●	●		●		●	●		●		●	●	●	●
041	●	●		●		●	●		●		●	●	●	●
086												●	●	●
097				●					●				●	●
098				●					●				●	●
099				●					●				●	●
120	●	●		●		●	●		●		●	●	●	●
130				●					●				●	●
134	●	●		●		●	●		●		●	●	●	●
139												●	●	●
151	●	●	●	●		●	●	●	●		●		●	●
170					●				●					●
174					●				●					●
180		●					●					●		
202				●					●				●	
350				●					●				●	
375				●					●				●	
388					●				●				●	
393				●					●				●	
395				●					●				●	
415		●	●	●			●	●	●			●	●	●
465	●	●		●		●	●		●		●	●	●	●
484		●		●			●		●			●	●	●
625					●				●					●
628														●
629	Deleted as result of technical progress													
630		●					●			●			●	
631														●
700	●			●		●			●		●		●	
702 1)					●				●		●			●
703	This Job No. is contained in Job No. 712													
706				●					●				●	
707	This Job No. is contained in Job No. 712													
708	This Job No. is contained in Job No. 712													
709	This Job No. is contained in Job No. 712													
711		●	●			●	●			●	●		●	
712				●					●				●	
714				●					●				●	
753						●			●					
756	●					●			●		●			

# Maintenance Chart Model Years 1977-1979

Job. No.	107.024 107.044					116.024 123.033 123.053					116.033					116.036				
	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection - every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection - every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection - every 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300-600 miles	2. Inspection at 6,000 miles	Maintenance - every 12,500 miles	Additionally every 37,500 miles	
757				●					●					●				●		
759						● 2)													●	
760							● 2)													
767										● 3)										
770				●					●					●				●		
772	●			●		●			●		●			●		●		●		
798	●			●		●			●		●			●		●		●		
813		●	●	●			●	●	●			●	●	●			●	●		
821		●		●			●		●			●		●			●	●		
832				●					●					●				●		
847					●					●					●				●	
871	●				●	●				●	●				●	●			●	
905	●					●					●					●				
907	●					●					●					●				
924	●			●		●			●		●			●		●		●		
951	●					●			●		●			●		●		●		
982				●					●					●				●		
983				●					●					●				●		
987	●			●		●			●		●			●		●		●		
988	●					●			●		●			●		●		●		
990	●	●		●		●	●		●		●	●		●		●	●	●		
991 4)					●					●					●				●	

1) This job is to be carried out once a year, preferably in spring

2) Only model 123.033

3) Only models 123.033 and 116.024 with California emission control system. This job is to be carried out once at 37,500 miles

4) This job is to be carried out every two years



# Maintenance Chart Model Years 1977–1979

	116.120	123.023*	123.130	123.150	123.190	123.123
Job. No.	1. Inspection at 300–600 miles 2. Inspection at 4,000 miles Lubrication every 4,000 miles Maintenance – every 12,500 miles Additionally every 37,500 miles	1. Inspection at 300–600 miles 2. Inspection at 6,000 miles Lubrication and brake inspection – every 6,000 miles Maintenance – every 12,500 miles Additionally every 37,500 miles	1. Inspection at 300–600 miles 2. Inspection at 3,000 miles Lubrication – every 3,000 miles Lubrication and brake inspection – every 6,000 miles Maintenance – every 12,500 miles Additionally every 37,500 miles			1. Inspection at 300–600 miles 2. Inspection at 3,000 miles Lubrication – every 3,000 miles Lubrication and brake inspection – every 6,000 miles Maintenance – every 12,500 miles Additionally every 37,500 miles
009						
025						
028						
029	This Job. No. is contained in Job. No. 025					
030						
038						
041						
045						
085						
097						
098						
099						
120						
121						
130						
134						
138						
151						
170						
171						
174						
180						
202						
205						
350						
375						
388						
393						
395						
415						
465						
484						
501						
510						
625						
630						
650						
700						
702 <sup>1)</sup>						
703	This Job No. is contained in Job No. 712					
706						
707	This Job No. is contained in Job No. 712					
709	This Job No. is contained in Job No. 712					
711						
712						
714						

# Maintenance Chart Model Years 1977-1979

Job. No.	116.120					123.023 *					123.130	123.150	123.190	123.123								
	1. Inspection at 300–600 miles	2. Inspection at 4,000 miles	Lubrication every 4,000 miles	Maintenance – every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 6,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance – every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 3,000 miles	Lubrication – every 3,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance – every 12,500 miles	Additionally every 37,500 miles	1. Inspection at 300–600 miles	2. Inspection at 3,000 miles	Lubrication – every 3,000 miles	Lubrication and brake inspection – every 6,000 miles	Maintenance – every 12,500 miles	Additionally every 37,500 miles
753	•			•		•			•		•				•		•				•	
756	•					•					•						•					
757				•					•						•						•	
759						•					•						•					
760							•					•						•				
770									•												•	
772						•																
773									•4)													
781									•5)													
782									•5)													
785									•													
787 <sup>2)</sup>				•											•						•	
788							•	•	•													
797	•			•							•				•		•				•	
798	•			•		•			•		•				•		•				•	
800			•					•					•	•				•		•		
813		•	•	•			•	•	•			•	•	•	•			•		•	•	
821		•		•			•		•			•			•			•			•	
832									•													
844					•											•						•
845					•											•						•
871	•				•	•				•	•					•	•				•	•
876						•				•							•					•
877	•																•					
895	•			•							•				•		•				•	
905	•					•					•						•					
907	•					•					•						•					
924	•			•		•			•		•				•		•				•	
951	•					•					•						•					
982				•					•						•						•	
983				•					•						•						•	
987	•			•		•			•		•				•		•				•	
988	•					•					•				•		•					
990	•	•		•		•	•		•		•	•			•		•	•			•	
991 <sup>3)</sup>					•					•						•						•

- 1) This job is to be carried out yearly if possible in spring  
 2) This job is only to be carried out at 12,500 miles  
 3) This job is only to be carried out every 2 years  
 \* This model is no longer sold as of model year 1979

- 4) Engines with breakerless transistorized ignition  
 5) Except engines with breakerless transistorized ignition

